CONTENTS

No. 1, July 1995

A Review and Synthesis of Habitat Use by Breeding Birds in Agricultural Landscapes of Iowa ..... Louis B. Best, Kathryn E. Freemark, James J. Dinsmore and Martha Camp 1

Abundance of Gulls and Other Birds at Landfills in Northern Ohio ..... Jerrold L. Belant, Thomas W. Seamans, Steven W. Gabrey and Richard A. Dolbeer 30

An Analysis of Midwestern Breeding Bird Population Trends: 1966–1993 ..... James R. Herkert 41

Temperature and Hunger Alter Grouping Trade-off in Whirligig Beetles ..... William L. Romey and David S. Rossman 51

Effects of Abiotic Factors on Macroinvertebrate Drift in the Lower Mississippi River, Louisiana ..... Peter Koetsier and C. Frederick Bryan 63

Aspects of the Ecology of Three Species of Ants (Myrmecocystus spp., Aphaenogaster sp.) in Desertified Grassland in Southeastern Arizona, 1958–1993 ..... Robert M. Chew 75

Resource Allocation in Sequentially Flowering Cosmos bipinnatus ..... Susan U. Linville 84

Intraspecific Competition in Chenopodium album Varies with Resource Availability ..... A. B. Nicotra and N. L. Rodenhouse 90

Estimating the Allometry of Tree Bark ..... Dean C. Adams and James F. Jackson 99

Differential Postdispersal Seed Predation in Disturbed and Intact Temperate Forest ..... Julie Schwantes Boman and Brenda B. Casper 107

Survival and Aerenchyma Development under Flooded Conditions of Boltonia decurrens, a Threatened Floodplain Species and Conyza canadensis, a Widely Distributed Competitor ..... M. A. Stoecker, M. Smith and E. D. Melton 117

Effects of Rhizosphere Inundation on the Growth and Physiology of Wet and Dry-site Acer rubrum (Red Maple) Populations ..... Robney E. Will, John R. Seiler, Peter P. Feret and W. Michael Aust 127

Seed Banks of Carolina Bays: Potential Contributions from Surrounding Landscape Vegetation ..... Karen A. Poiani and Philip M. Dixon 140

Environmental Factors Affecting Understory Diversity in Second-growth Deciduous Forests ..... Cynthia D. Huebner, J. C. Randolph and G. R. Parker 155

Height Growth of Advance Regeneration under an Even-aged Bigtooth Aspen (Populus grandidentata) Overstory ..... Brian J. Palik and Kurt S. Pregitzer 166

Influences of Community Composition on Biogeochemistry of Loblolly Pine (Pinus taeda) Systems ..... B. G. Lockaby, J. H. Miller and R. G. Clawson 176

Spatial and Temporal Distribution of the Polymorphism for Tail-tip Albinism in the Hispid Pocket Mouse, Chaetodipus hispidus (Rodentia: Heteromyidae) ..... Frederick B. Stangl, Jr., Thomas S. Delizio and William E. Hinds 185

Rodent Use of Microhabitat Patches in Desert Arroyos ..... Eric E. Jorgensen, Stephen Demarais and Stephen Neff 193

Notes and Discussion

Depredation of Artificial Avian Nests: A Comparison of Forest-field and Forest-lake Edges ..... Eric K. Bollinger and Rebecca G. Peak 200

CONTENTS

No. 2, October 1995

Population Fluctuations of the Monarch (Danaus plexippus) in the 4th of July Butterfly Count 1977–1994 ..... Ann B. Swengel 205

Spittle Maggots: Studies on Cladochaeta Fly Larvae Living in Association with Clastoptera Spittlebug Nymphs ..... Vinton Thompson and Norhashimah Mohd-Saleh 215

Long-term Effects of Weather on the Cricket (Hadenoecus subterraneus, Orthoptera, Rhaphidophoridae) Guano Community in Mammoth Cave National Park ..... Thomas L. Poulson, Kathleen H. Lavoie and Kurt Helf 226

An Experimental Study of the Effects of Shade, Conspecific Crowding, Pocket Gophers and Surrounding Vegetation on Survivorship, Growth and Reproduction in Penstemon grandiflorus ..... Mark A. Davis, Byron Ritchie, Norman Graf and Kim Gregg 237

Effects of Disturbance on Herbaceous Exotic Plant Species on the Floodplain of the Potomac River ..... Laura L. Pyle 244

Soils and Plant Communities Associated with Three Vitis Species ..... L. D. Morano and M. A. Walker 254

Relationships Between Soils and Presettlement Forests in Baraga County, Michigan ..... Linda R. Barrett, Johan Liebens, Daniel G. Brown, Randall J. Schaetzl, Patricia Zuwerink, Thomas W. Cate and David S. Nolan 264

Partition of Fragrance between Calyx and Corolla in Polemonium foliosissimum ..... Bob Dorsett and Alger Pike 286

Pitch Pine (Pinus rigida Mill.) Communities in Northeastern New York State ..... John M. Bernard and Franz K. Seischab 294

Influence of Environmental Factors and Preliminary Demographic Analyses of a Threatened Orchid, Platanthera praeclara ..... Carolyn Hull Sieg and Rudy M. King 307

Characteristics of Mineral Licks Used by White-tailed Deer (Odocoileus virginianus) ..... John F. Kennedy, Jonathan A. Jenks, Robert L. Jones and Kurt J. Jenkins 324

Effect of Browsing by Deer on the Growth and Reproductive Success of Lactuca canadensis (Asteraceae) ..... Angela L. Shelton and Richard S. Inouye 332

Habitat Use by Corynorhinus townsendii virginianus in the Daniel Boone National Forest ..... Laura S. Burford and Michael J. Lacki 340

Food of the Big Brown Bat Eptesicus fuscus from Maternity Colonies in Indiana and Illinois ..... John O. Whitaker, Jr. 346

Temporal Variation in Microhabitat Use and Spatial Relations in the Benthic Fish Community of a Stream ..... Richard K. Kessler, Andrew E. Casper and Gordon K. Weddle 361

Reproductive Cycles and Temporal Variation in Fecundity in the Black Swamp Snake, Seminatrix pygaea ..... Richard A. Seigel, Raymond K. Loraine and J. Whitfield Gibbons 371

Disarticulation of Turtle Shells in North-central Florida: How Long Does a Shell Remain in the Woods? ..... C. Kenneth Dodd, Jr. 378

Distribution of Van Dyke's Salamander (Plethodon vandykei Van Denburgh) ..... Albert G. Wilson, Jr., John H. Larsen, Jr. and Kelly R. McAllister 388

Notes and Discussion

Aboveground Biomass and Phosphorus Concentrations of Lythrum salicaria (Purple Loosestrife) and Typha spp. (Cattail) in 12 Minnesota Wetlands ..... Sarah L. Emery and James A. Perry 394

Do Fatty Reserves Extend Dispersal Distance of Wind-dispersed Seeds of Dioscorea japonica? ..... Masaki Tateno 400

Survival and Cause-specific Mortality Rates of Adult Bobcats (Lynx rufus) ..... Todd K. Fuller, Stephen L. Berendzen, Thomas A. Decker and James E. Cardoza 404

Range Shift By a Female Bobcat (Lynx rufus) After Removal of Neighboring Female ..... Matthew J. Lovallo and Eric M. Anderson 409

Path to Extinction: Impact of Vegetational Change on Lizard Populations on Arapaho Prairie in the Nebraska Sandhills ..... Royce E. Ballinger and Kristin S. Watts 413